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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,342	08/01/2003	Jonathan C. Makielski	960296.98989 4060	
26734 QUARLES &	7590 05/18/2007 BRADY LLP		EXAMINER	
33 E. MAIN S	T, SUITE 900		PAK, MIC	CHAEL D
P.O. BOX 211 MADISON. W	0. BOX 2113 ADISON, WI 53701-2113		. ART UNIT	PAPER NUMBER
,			1646	
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			MAIL DATE	DELIVERY MODE
			05/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/632,342	MAKIELSKI ET AL.			
		Examiner	Art Unit			
		Michael Pak	1646			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>22 February 2007</u> .					
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-50</u> is/are pending in the application. 4a) Of the above claim(s) <u>3-6,8,9,11,12,14,15,2</u> Claim(s) is/are allowed. Claim(s) <u>1,2,7,10,13,16,19,20,23,25,27 and 29</u> Claim(s) <u>17,18 and 28</u> is/are objected to. Claim(s) are subject to restriction and/o	2 <u>1,22,24,26 <i>and</i> 30-50</u> is/are with g is/are rejected.	drawn from consideration.			
Applicati	ion Papers					
9)[The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority (under 35 U.S.C. § 119					
12) a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
2) Notice 3) Information	et(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO/SB/08) Deer No(s)/Mail Date 2-22-07.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

1. Applicants argue that claim 48 restriction response by examiner in the last office action was confusing and requested clarification. Examiner agrees that creating a group fro claim 48 separately in a new Group VII is incorrect and both groups V and VI should have claim 48 in the groups. Any indication of a new group VII in the last office action is withdrawn

The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 1-50 are pending. Claims 3-6, 8-9, 11-12, 14-15, 21-22, 24, 26, and 30-50 are withdrawn. Claims 1-2, 7, 10, 13, 16-20, 23, 25, and 27-29 are examined.
- 3. This application contains claims 3-6, 8-9, 11-12, 14-15, 21-22, 24, 26, and 30-50 drawn to an invention nonelected with traverse in the reply filed on August 31, 2006. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application

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by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-2, 7, 10, 13, 16, 19-20, 23, 25, 27 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Splawski et al. (US 6,342,357).

Splawski et al. disclose nucleic acid encoding SCN5A sodium channel (SEQ ID NO:4) which has an alteration at amino acid 552 of the claimed SEQ ID NO:8 encoded by the nucleic acid (columns 4-8; see attached sequence comparison). Splawski et al. disclose nucleic acid encoding SCN5A (SEQ ID NO:4) which has 99.5% amino acid sequence identity to the claimed SEQ ID NO:8 encoded by the nucleic acid (see sequence comparison attachment). Splawski et al. disclose vectors comprising the nucleic acid of above and cells comprising the vectors (columns 9-12).

Applicants argue that Spalwski et al. do not disclose the identical sequence to claimed SEQ ID NO:8. However, only claims 17-18 and 28 include SEQ ID NO:8 in its limitations and the rejection towards those claims have been withdrawn.

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5. No claims are allowed. Claims 17-18 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form and do not introduce claim limitations which would precipitate a rejection or an objection.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pak whose telephone number is 571-272-0879. The examiner can normally be reached on 8:00 - 2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on 571-272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael Pak

Primary Patent Examiner

Hichard D. Me

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